



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/739,084	12/19/2003	Shunpei Yamazaki	0756-7232	9928
31780	7590	11/01/2007	EXAMINER	
ERIC ROBINSON			DUDEK, JAMES A	
PMB 955			ART UNIT	PAPER NUMBER
21010 SOUTHBANK ST.			2871	
POTOMAC FALLS, VA 20165				
MAIL DATE		DELIVERY MODE		
11/01/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

TH

Office Action Summary	Application No.	Applicant(s)
	10/739,084	YAMAZAKI ET AL.
	Examiner James A. Dudek	Art Unit 2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 October 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5, 9, 11, 13, 15, 17 and 20-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5, 9, 11, 13, 15, 17 and 20-27 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 12/19/03 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 8/8/07, 10/18/07.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4-5, 9, 13, 15, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 20010022644 (644) in view of US 5412192 A, US 4536014 A and US 4472627 A.

Per claims 1, 4, 9 and 20, 644 teaches a card comprising: a display device comprising a first semiconductor element comprising a first polycrystalline semiconductor film [TFT in pixel section and see paragraph 162]; a first thin film integrated circuit comprising a second semiconductor element comprising a second polycrystalline semiconductor film [the analog switch TFT]; a first plastic substrate [130 and paragraph 125]; and a second plastic substrate [135 and paragraph 126], wherein the display device is electrically connected to the first thin film integrated circuit [pixel 144 is connected to pixel TFT]. 644 lack the thin film integrated circuit and the display device sealed between the first substrate and the second substrate of the card and wherein the first substrate and the second substrate comprise a plastic material or resin.

However, US 5412192 A (see 12 in the figures), US 4536014 A (see 1 and 10 in the figures) and US 4472627 A (see 22 which function as both the upper and lower substrates) are evidence that it was well known to seal a liquid crystal display between two plastic substrates when incorporating the display in a card. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine the well known substrates/laminates with 644 in order to protect and seal the display.

Per claim 5, 644 teaches a card of claim 1 further comprising a second integrated circuit wherein the first and second thin film integrated circuits are laminated [each TFT is by the passivation laminate 146].

Per claims 13, 15 and 17, 644 teaches a card according to claims 1, wherein the card is an IC card [see paragraph 179].

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 20010022644 (644) in view of US 5412192 A, US 4536014 A and US 4472627 A) as applied to claims 1, 4-5, 9, 13, 15, 17 and 20 and further in view of US 4709991 A (991).

Per claims 2, 644 teaches a card according to claim 1, but lacks the card having a thickness from 0.05 mm through 1.5 mm. Since 644 uses the display in an IC card it would have to be relatively thin and thus its was desirable to make the display as thin as possible. US 4709991 A teaches techniques to make such thin displays. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine the techniques of 991 in order to create a cell between 0.005 mm and 1.5 mm in order to place the display in an IC card.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 20010022644 (644) in view of US 5412192 A, US 4536014 A and US 4472627 A) as applied to claims 1, 4-5, 9, 13, 15, 17 and 20 and further in view of US 4709995 A (995).

644 lack a passive matrix electrode structure. However, 995 teaches, at column 1, that a passive matrix electrode structure compared to active matrix has a lower production cost. Accordingly, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the passive matrix driving with 644.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 20010022644 (644) in view of US 5412192 A, US 4536014 A and US 4472627 A as applied to claims 1, 4-5, 9, 13, 15, 17 and 20 and further in view of US 6859195 B2 (195).

644 lack the device being light emitting. However, 195 teaches at column 9, third paragraph that LCD and oled are interchangeable and that oled is self-emissive. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine use a light emissive oled instead of an LCD.

Claims 20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 20010022644 (644) in view of US 5412192 A, US 4536014 A and US 4472627 A as applied to claims 1, 4-5, 9, 13, 15, 17 and 20 and further in view of US 7158031 B2 (031).

644 lacks the integrated thin film in contact with the insulating film, an antenna and the antenna in contact with insulating film. However, 031 teaches both an antenna and an insulating

film used in a card. The insulating film is for protection and the antenna is for communication. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine the insulting film and antenna of 031 with 644.

Regarding the third substrate, the patents cited as evidence each teach a third substrate.

Response to Arguments

Arguments are moot. See new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James A. Dudek
Primary Examiner
Art Unit 2871